Method and System for Scalable, High Performance

Hierarchical Storage Management

ABSTRACT OF THE INVENTION

Disclosed is a mechanism of managing an hierarchical storage management (HSM) system including an HSM server and a file server having a managed file system where the HSM server and the file server are interconnected via a network. Migration of data files from the file server to the HSM server is accomplished by providing at least one list for identifying candidate files to be migrated, scanning the managed file system until having detected a prespecified number of migration candidate files, recording the detected migration candidate files in the provided at least one list of candidate files, monitoring a current state of the managed file system, and migrating at least part of the candidate files identified in the at least one list of candidate files from the file server to the HSM server, dependent on the monitored current state of the managed file system. In parallel, the migrated data files can be identified by a unique identifier that allows direct access to the migrated files. The mechanism enables an efficient handling of large amounts of file based information in the HSM environment by way of an automigration process and is highly scalable with respect to the amount of file based information.

E \Work\Client Files\1200 SanJose\1244\1200 2 44

Docket No. DE920000124US1

BRIAN C. KUNZLER
ATTORNEY AT LAW
10 WEST 100 SOUTH, SUITE 425
SALT LAKE CITY, UTAH 84101